



SEQUENCE LISTING

<110> Nardin, Elizabeth
Moreno, Alberto

<120> UNIVERSAL T-CELL EPITOPES FOR ANTI-MALARIAL VACCINES

<130> 5986/1B615-US1

<140> 09/060,450

<141> 1998-01-21

<150> 60/033,916

<151> 1997-01-21

<160> 11

<170> FastSEQ for Windows Version 3.0

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<213> P. falciparum

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Cys Ser Val Thr
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<213> Artificial Sequence

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<223> Poly-alanine peptide containing DR 1, 4, 7 and 13 allele specific binding motifs for use as indicator peptide.

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Gly Phe Lys Ala Ala Ala Ala Ala Ala

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<223> Poly-alanine peptide containing DR 3 allele specific binding motifs for use as indicator peptides.

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Ile Ala Tyr Asp Ala Ala Ala Ala

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<223> Poly-alanine peptide containing DR 8 allele specific binding motifs for use as indicator peptide.

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Gly Tyr Arg Ala Ala Ala Ala Ala Leu

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<223> UD4 peptide containing DR 4 allele specific binding motifs for use as indicator peptide.

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Tyr Pro Lys Phe Val Lys Gln Asn Thr Leu Lys Ala Ala

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<223> Fusion of Carboxyl Terminus of SEQ ID NO:4 to Amino Terminus of Seq ID NO: 3, designated T*T1

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Cys Ser Val Thr Asp Pro Asn Ala Asn Pro Asn Val Asp Pro Asn Ala

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Asn Pro Asn Val

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<212> PRT

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<223> Fusion of Amino Terminus of SEQ ID NO: 4 to
Carboxyl Terminus of SEQ ID NO: 3 with Concomitant Fusion of
Carboxyl Terminus of SEQ ID NO:4 to Amino Terminus of Seq ID NO:
1, designated T1BT*

<400> 11

Asn Ala Asn Pro Asn Ala Asn Pro Asn Ala Asn Pro Asp Pro Asn Ala
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Asn Pro Asn Val Asp Pro Asn Ala Asn Pro Asn Val Glu Tyr Leu Asn
20 25 30

Lys Ile Gln Asn Ser Leu Ser Thr Glu Trp Ser Pro Cys Ser Val Thr
35 40 45